

## 1. PERFORMANCE

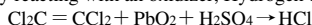
- |                             |  |                                 |
|-----------------------------|--|---------------------------------|
| 1) Measuring range          | : 69-920 $\mu\text{g}/\text{m}^3$  | 30-400 $\mu\text{g}/\text{m}^3$ |
| 2) Sampling volume          | : 1.5L (100mL/min $\times$ 15min)  | 3L (100mL/min $\times$ 30min)   |
| 3) Sampling time            | : 15 minutes   | 30 minutes                      |
| 4) Detectable limit         | : 5 $\mu\text{g}/\text{m}^3$ (100mL/min $\times$ 30min)                                |                                 |
| 5) Shelf life               | : 1 year   |                                 |
| 6) Operating temperature    | : 0 ~ 40°C   |                                 |
| 7) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION COEFFICIENT TABLE")                           |                                 |
| 8) Operating humidity       | : 0 ~ 70% R.H.   |                                 |
| 9) Reading                  | : Direct reading from the scale calibrated at the sampling of 100mL/min $\times$ 30min |                                 |
| 10) Colour change           | : Yellow orange $\rightarrow$ Purple red   |                                 |

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 10%    RSD-mid. : 5%    RSD-high : 5%

## 3. CHEMICAL REACTION

By reacting with an oxidizer, Hydrogen chloride is produced and pH indicator is discoloured.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Tetrachloroethylene	Similar stain is produced.	Higher readings are given.
1,2-Dichloroethylene	∕	∕
Vinyl chloride	∕	∕

(NOTE)

- 1) Air sampler is required for this tube.
- 2) In case of 1.5L sampling, following formula is available for the actual concentration.  
Actual concentration = 2.3  $\times$  Temperature corrected value

TABLE OF THE COEFFICIENT FOR TEMPERATURE CORRECTION (20°C standard)

Temp(°C)	0	1	2	3	4	5	6	7	8	9
0	1.71	1.66	1.62	1.58	1.54	1.50	1.46	1.42	1.39	1.35
10	1.31	1.28	1.24	1.21	1.18	1.15	1.12	1.09	1.06	1.03
20	1.00	0.97	0.95	0.92	0.90	0.87	0.85	0.83	0.81	0.79
30	0.77	0.75	0.73	0.71	0.70	0.68	0.67	0.65	0.64	0.63
40	0.61	—	—	—	—	—	—	—	—	—